

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P317414

Luminaire Tested: **GAN-SA0C-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 66423 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

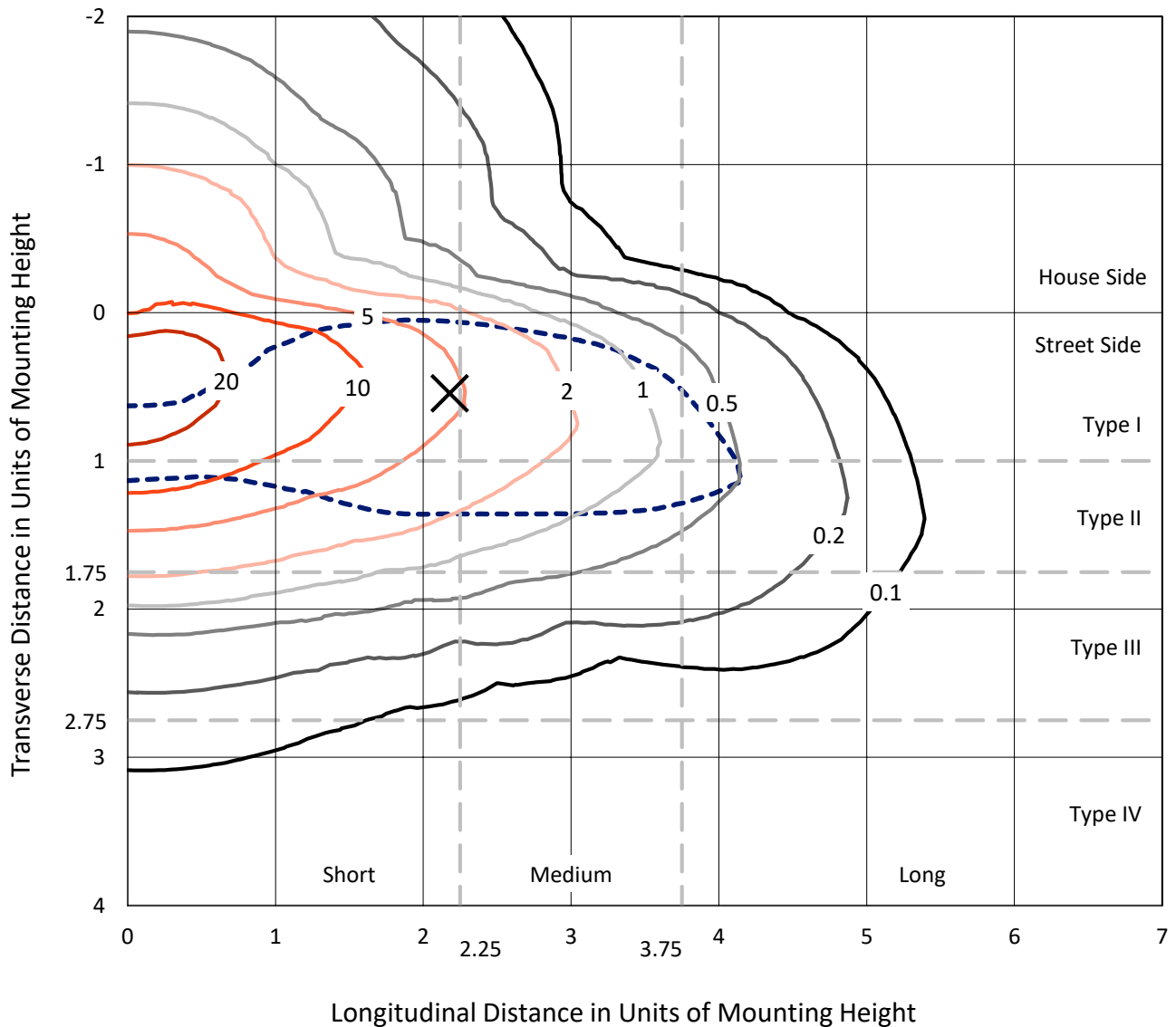
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

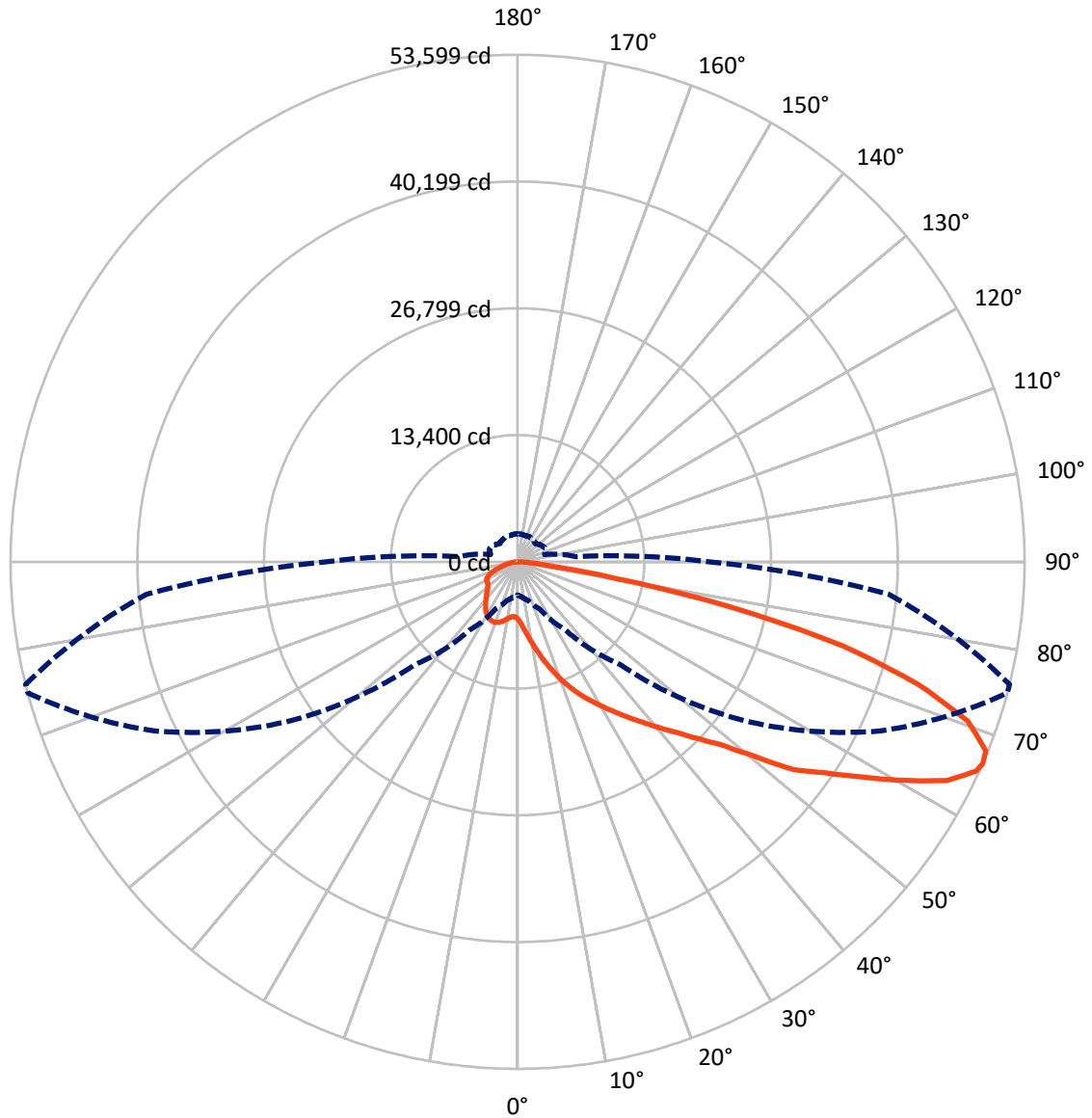
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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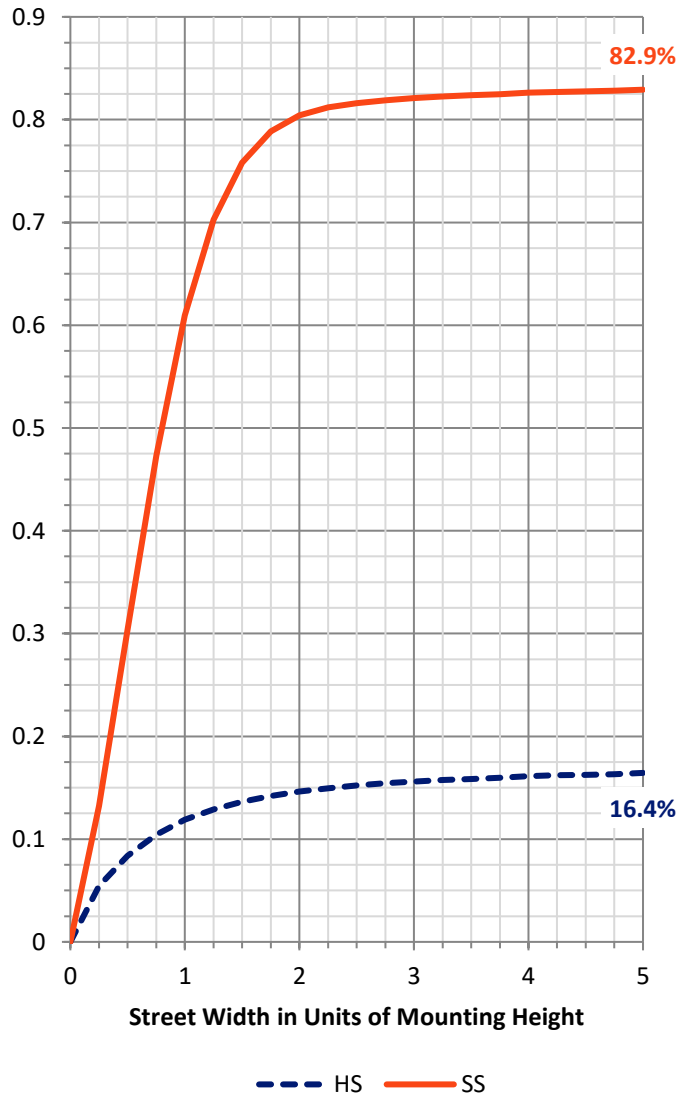
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11176.7	0.0	11176.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	55246.3	0.0	55246.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	66423.0	0.0	66423.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	733.5	1.1
10°-20°	2896.7	4.4
20°-30°	5628.9	8.5
30°-40°	9187.7	13.8
40°-50°	12552.6	18.9
50°-60°	14621.3	22.0
60°-70°	13108.2	19.7
70°-80°	6624.3	10.0
80°-90°	1069.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	66423.0	100.0
0°-180°	66423.0	100.0

**Coefficient of Utilization**

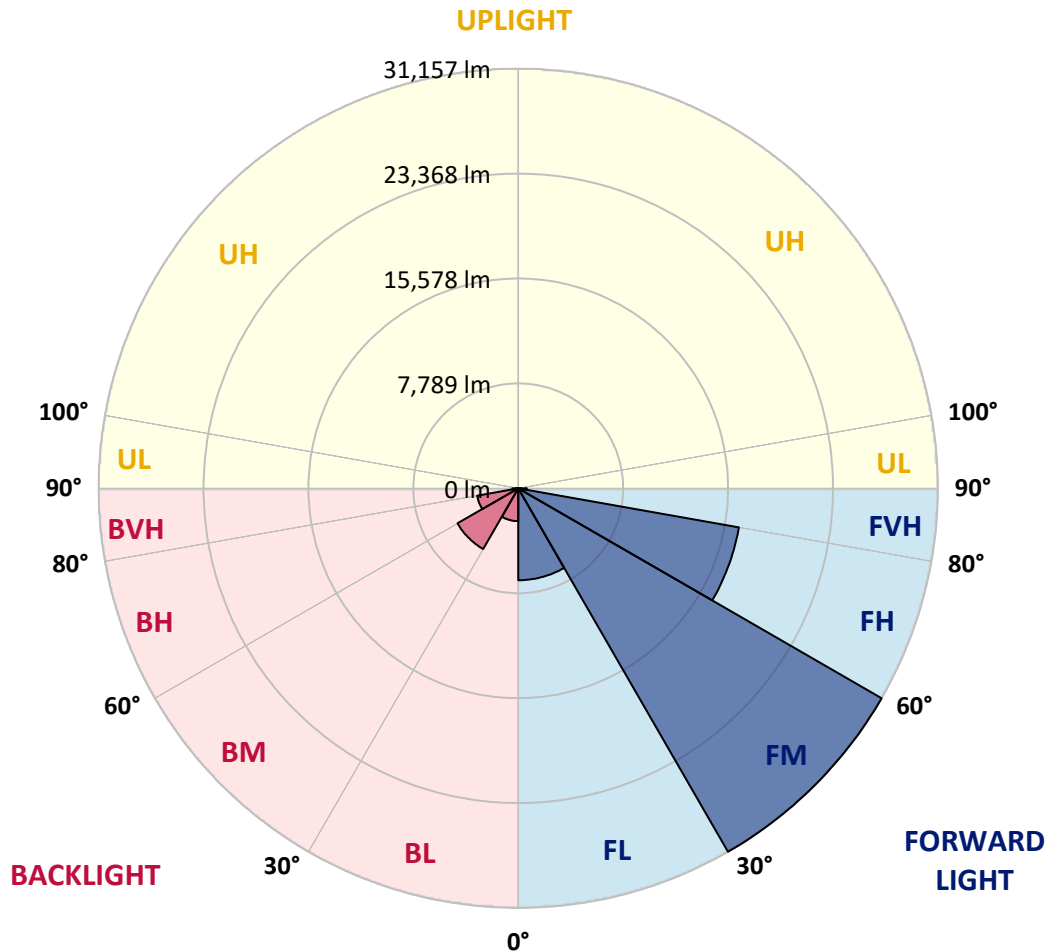


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6821.5	10.3			
FM (30°-60°)	31157.0	46.9			
FH (60°-80°)	16636.1	25.0			G5
FVH (80°-90°)	631.7	1.0			G4/750
BL (0°-30°)	2437.7	3.7	B3/2500		
BM (30°-60°)	5204.6	7.8	B4/8500		
BH (60°-80°)	3096.5	4.7	B4/5000		G4/5000
BVH (80°-90°)	438.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9
2.5°	8052.6	7930.8	7919.5	7741.4	7700.8	7360.3	7110.0	6848.4	6550.7	6492.1	6257.6
5°	10343.6	10332.4	10176.8	9885.9	9658.1	9076.3	8501.3	7892.5	7225.0	7116.7	6589.1
7.5°	12404.7	12386.6	12267.1	11953.7	11624.5	10909.6	10088.8	9155.3	8072.9	7912.8	7037.8
10°	13969.7	13962.9	13922.3	13692.3	13412.7	12727.2	11820.6	10546.6	9058.3	8839.6	7599.3
12.5°	15178.3	15191.9	15218.9	15137.7	15004.7	14420.6	13491.6	12021.3	10109.1	9892.6	8223.9
15°	15996.9	16037.5	16177.3	16292.3	16362.2	16003.7	15103.9	13529.9	11286.2	11026.9	8916.2
17.5°	16409.5	16454.6	16695.9	17043.2	17363.4	17327.3	16612.5	14968.6	12416.0	12165.7	9660.4
20°	16765.8	16799.7	17070.3	17487.4	18053.4	18303.7	17902.4	16353.2	13654.0	13356.3	10449.6
22.5°	17798.6	17841.5	17922.6	18159.4	18660.0	19120.0	18926.1	17663.3	14788.2	14510.8	11198.3
25°	19792.0	19843.9	19668.0	19467.3	19562.0	19882.2	19918.3	18858.5	15938.3	15624.8	12003.3
27.5°	22193.6	22268.0	21968.1	21451.7	21000.7	20876.7	20833.8	19837.1	17036.4	16673.4	12799.3
30°	24545.5	24674.1	24284.0	23614.2	22786.7	22204.9	21774.2	20795.5	18118.8	17771.6	13550.2
32.5°	26843.4	26791.5	26225.5	25571.6	24601.9	23873.6	22831.8	21823.8	19336.5	18937.4	14296.6
35°	28417.4	28435.4	27910.0	27134.3	26209.7	25650.5	24247.9	22933.2	20579.0	20211.5	15144.5
37.5°	29756.8	29673.4	29078.1	28354.2	27558.2	27319.2	25905.3	24155.4	21925.2	21523.9	16046.5
40°	30203.3	30106.3	29716.2	29195.3	28557.2	28536.9	27734.1	25540.0	23447.4	23050.5	17063.5
42.5°	29932.7	29808.7	29648.6	29506.5	29310.3	29400.5	29452.4	27163.6	25120.6	24676.3	18240.6
45°	28933.8	28746.6	28859.3	29168.3	29594.5	30104.1	31003.8	28960.8	26994.5	26622.4	19622.9
47.5°	27398.1	27229.0	27580.8	28241.5	29400.5	30690.4	32471.8	30945.2	29231.4	28861.6	21591.5
50°	25237.8	25287.4	25790.3	26992.2	28744.3	30961.0	34280.3	33572.3	32483.1	32138.1	24277.2
52.5°	21693.0	21702.0	23118.1	25091.3	27580.8	30821.2	35283.8	36929.9	36923.2	36506.0	26834.4
55°	18400.7	18601.4	19722.1	22344.7	25695.6	30261.9	35985.1	38562.6	39838.9	39349.5	29217.9
57.5°	15185.1	15302.3	16364.4	18998.3	23005.4	28771.4	36704.4	40522.1	43198.8	42889.9	32180.9
60°	11527.5	11707.9	12806.1	15239.2	19564.3	26126.3	36772.1	42567.4	47214.9	46903.8	35489.0
62.5°	7482.1	7793.2	8821.5	11101.3	15401.6	22322.1	35202.6	43904.6	51021.4	50910.9	38425.0
65°	4300.3	4534.8	5249.6	7008.5	10625.5	17546.1	31470.6	43390.5	53364.3	53301.2	39523.2
66°	3513.3	3659.8	4207.8	5477.4	8767.4	15408.3	29301.3	42305.8	53596.6	53598.8	39396.9
67.5°	2809.7	2875.1	3120.9	3921.4	6469.6	12213.0	25425.0	39913.3	53307.9	53386.8	38582.8
70°	2324.9	2358.7	2435.4	2629.3	3531.3	7364.8	18046.7	33696.3	50410.3	50471.1	35405.6
72.5°	2085.9	2106.2	2135.5	2162.5	2491.8	4115.4	11022.4	26956.1	44197.8	44276.7	30564.1
75°	1889.7	1901.0	1896.4	1898.7	2090.4	2622.6	5696.1	20125.8	35737.1	35579.2	23413.5
77.5°	1659.7	1670.9	1648.4	1652.9	1849.1	2016.0	2834.5	14089.2	24117.1	23003.1	13191.7
80°	1402.6	1411.6	1402.6	1418.4	1610.1	1522.1	1648.4	7926.3	10663.8	10086.6	4690.4
82.5°	1059.8	1098.2	1125.2	1188.4	1325.9	1082.4	1102.7	3087.1	3247.2	3091.6	1438.7
85°	464.5	566.0	847.9	908.8	996.7	649.4	723.9	1258.3	1321.4	1280.8	523.2
87.5°	121.8	133.0	419.4	527.7	552.5	293.1	376.6	572.8	604.3	572.8	173.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9
2.5°	6133.6	6023.1	5824.6	5648.7	5515.7	5425.5	5335.3	5290.2	5263.1	5236.1	5240.6
5°	6329.8	6106.5	5766.0	5524.7	5389.4	5303.7	5258.6	5240.6	5229.3	5202.3	5202.3
7.5°	6625.2	6309.5	5840.4	5592.4	5486.4	5421.0	5393.9	5384.9	5371.4	5339.8	5344.3
10°	6997.2	6555.3	5996.0	5754.7	5657.8	5585.6	5547.3	5533.7	5508.9	5472.9	5477.4
12.5°	7434.7	6859.7	6201.2	5948.7	5831.4	5734.4	5671.3	5633.0	5590.1	5542.8	5545.0
15°	7912.8	7191.2	6422.2	6122.3	5962.2	5826.9	5725.4	5660.0	5592.4	5533.7	5531.5
17.5°	8397.6	7511.4	6591.3	6217.0	6000.5	5822.4	5684.8	5583.4	5499.9	5427.8	5421.0
20°	8920.7	7800.0	6686.0	6208.0	5928.4	5716.4	5533.7	5407.5	5315.0	5242.8	5231.6
22.5°	9452.9	8070.6	6701.8	6115.5	5768.3	5508.9	5317.3	5177.5	5082.7	5008.3	4981.3
25°	9940.0	8280.3	6636.4	5937.4	5545.0	5265.4	5078.2	4936.2	4859.5	4771.6	4744.5
27.5°	10384.2	8426.9	6505.6	5709.6	5294.7	5019.6	4843.7	4721.9	4638.5	4570.9	4548.3
30°	10783.4	8505.8	6291.4	5439.0	5037.6	4787.3	4638.5	4555.1	4482.9	4397.2	4381.4
32.5°	11162.2	8505.8	6016.3	5143.6	4782.8	4582.1	4494.2	4442.3	4361.1	4277.7	4255.2
35°	11541.0	8454.0	5691.6	4834.7	4548.3	4435.6	4431.1	4370.2	4246.1	4133.4	4104.1
37.5°	11940.2	8348.0	5326.3	4546.1	4356.6	4370.2	4408.5	4273.2	4097.3	3937.2	3894.4
40°	12391.2	8201.4	4947.4	4295.8	4196.5	4340.9	4347.6	4133.4	3790.6	3644.1	3605.7
42.5°	12921.1	8054.8	4595.7	4074.8	4070.3	4252.9	4232.6	3831.2	3626.0	3551.6	3531.3
45°	13617.9	7971.4	4261.9	3865.0	3971.0	4110.8	4036.4	3664.4	3578.7	3535.8	3517.8
47.5°	14716.1	8014.2	3955.2	3698.2	3871.8	3968.8	3671.1	3596.7	3535.8	3484.0	3465.9
50°	16091.6	7989.4	3707.2	3583.2	3759.1	3819.9	3506.5	3508.8	3477.2	3418.6	3391.5
52.5°	17126.6	7795.5	3547.1	3517.8	3659.8	3556.1	3402.8	3423.1	3407.3	3321.6	3292.3
55°	18125.6	7628.6	3465.9	3493.0	3587.7	3226.9	3281.0	3330.6	3314.8	3231.4	3217.9
57.5°	19368.1	7597.1	3416.3	3499.7	3526.8	3062.3	3163.7	3229.1	3217.9	3181.8	3175.0
60°	20890.2	7606.1	3371.2	3511.0	3459.2	2940.5	3053.3	3136.7	3143.5	3136.7	3132.2
62.5°	21726.8	7360.3	3258.5	3479.4	3339.6	2834.5	2938.2	3060.0	3062.3	3075.8	3073.5
65°	21016.5	6625.2	3048.7	3369.0	3138.9	2746.6	2839.0	2972.1	2938.2	2999.1	2999.1
66°	20326.5	6201.2	2945.0	3296.8	3053.3	2712.8	2807.5	2927.0	2884.1	2967.6	2967.6
67.5°	18917.1	5486.4	2757.9	3143.5	2931.5	2665.4	2771.4	2852.6	2793.9	2918.0	2908.9
70°	16341.9	4243.9	2381.3	2796.2	2730.8	2595.5	2721.8	2703.7	2618.0	2807.5	2771.4
72.5°	13778.0	3224.6	1912.2	2340.7	2426.4	2507.5	2651.9	2514.3	2406.1	2539.1	2460.2
75°	10690.9	2424.1	1510.8	1819.8	2049.8	2370.0	2568.4	2295.6	2140.0	2126.5	2083.6
77.5°	5779.5	1664.2	1197.4	1389.1	1628.1	2198.6	2512.1	2061.1	1826.5	1772.4	1738.6
80°	2288.8	1082.4	870.4	1053.1	1138.8	1950.6	2376.8	1788.2	1506.3	1452.2	1400.3
82.5°	944.8	640.4	561.5	705.8	741.9	1668.7	2133.2	1465.7	1163.6	1610.1	1709.3
85°	405.9	351.8	333.7	365.3	419.4	1170.3	1698.0	1118.5	1256.0	1120.7	890.7
87.5°	121.8	148.8	142.1	139.8	153.3	279.6	904.3	622.4	922.3	349.5	261.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)